Function reflections
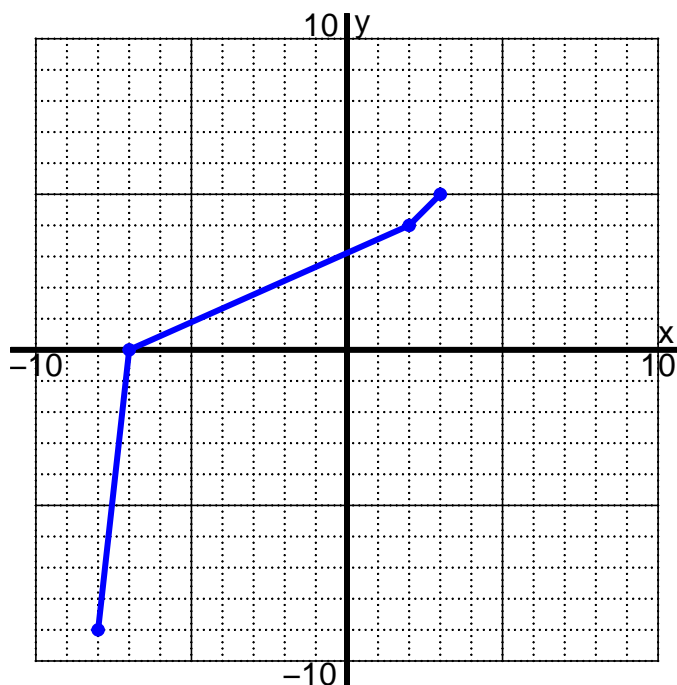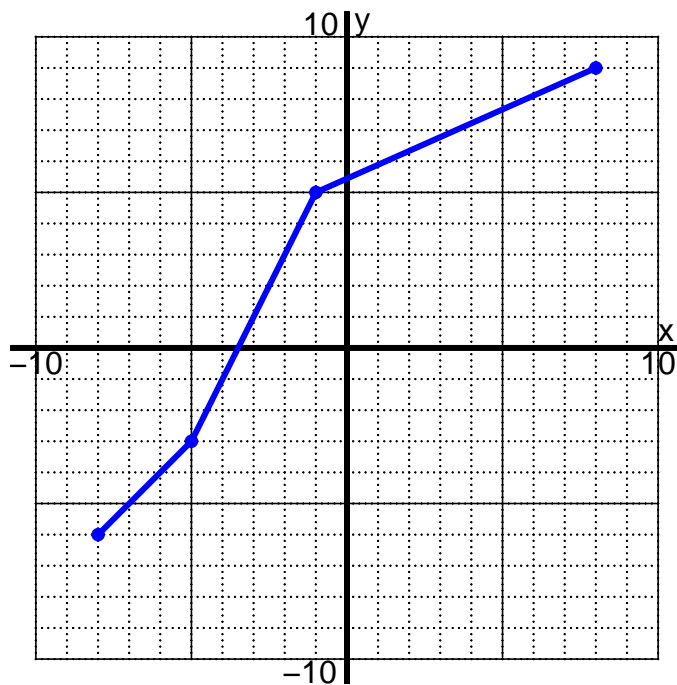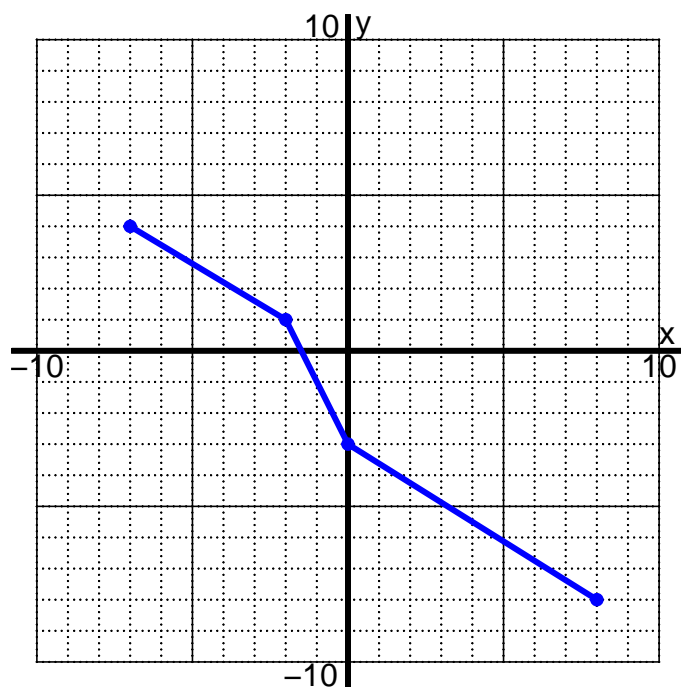
1. Below is a plot of $y = f(x)$. On the same xy plane, please draw $y = -f(-x)$.

2. Below is a plot of $y = f(x)$. On the same xy plane, please draw $y = -f(x)$.

3. Below is a plot of $y = f(x)$. On the same xy plane, please draw $y = f^{-1}(x)$.

4. Below is a plot of $y = f(x)$. On the same xy plane, please draw $y = f(-x)$.